I heteby certify that this correspondence is being deposited to sufficient postage in an envelope addressed to: Attn: Certification of Person Mailing Paper or Fee:  Signature:  Date of Deposit:	Barbara S. Pedersen
	PATENT APPLICATION DOCKET NO. 3240

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S):

Dennis Chilcote, et al.

PATENT NO.:

6,890,440

SERIAL NO.:

10/632,527

ISSUE DATE:

May 10, 2005

FILED:

August 1, 2003

SUBJECT:

Method And Apparatus For Enhancing Filter Bed Performance

Certificate JUL 2 6 2005 of Correction

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450.

# REQUEST FOR ISSUANCE OF CERTIFICATE OF CORRECTION

Sir:

Michael S. Gratz, one of the inventors in the above-identified patent, through the undersigned Attorney/Agent of record, respectfully requests that a Certificate of Correction to be issued in accordance with 37 C.F.R. 1.322 for the subject patent.

Enclosed herewith are two complete copies of Form PTO 1050 correcting the error in the above patent. The name of Michael S. Gratz is mistakenly listed with "Mike" as the first name, and should be corrected to "Michael". Attached please find a copy of the Initial Information Data Sheet, first page of the Non-Provisional Application, Official Updated Filing Receipt (non-

JUL 2 8 2005

Receipt (non-provisional) and Combined Declaration and Power of Attorney showing the proper first name for **Michael** S. Gratz. Note that this inventor signed his name on the Combined Declaration and Power of Attorney as "Michael S. Gratz". Therefore, the undersigned believes this correction should be made under 37 C.F.R. 1.322 and no fee is due.

Issuance of a Certificate of Correction to correct this error is therefore respectfully requested.

We shall appreciate your returning to us one executed copy of this Certificate of Correction for attachment to our Letters patent.

Respectfully submitted,

Ken J. Pedersen, Registration No. 29,689

Barbara S. Pedersen, Registration No. 36,237 Shane A. Kennedy, Registration No. 54,760

P.O. Box 2666

Boise, ID 83701-2666

Telephone: 208-343-6355 Facsimile: 208-343-6341



Non-provisional IIDS

#### **Inventor Information**

Inventor One Given Name::

Family Name::

Postal Address Line One::

City::

State or Province:: Postal or Zip Code::

Citizenship Country::

Inventor Two Given Mame::

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Postal Address Line One::

City::

State or Province::

Postal or Zip Code::

Citizenship Country::

Inventor Three Given Name::

Family Name::

Postal Address Line One::

City::

State or Province::

Postal or Zip Code::

Citizenship Country::

Inventor Four Given Name::

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State or Province::

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## U.S. CONVENTIONAL UTILITY PATENT APPLICATION Attorney's Docket No: 3240

Certification of Express Mailing (37 C.F.R. Section 1.10)

I hereby certify that this Utility Patent Application is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" Number EV 307934178 US on the date below in an envelope with sufficient postage addressed to: Mail Stop Patent Application, Assistant Commissioner of Patents, P.O. 1450, Alexandria, VA 22313 - 1450
Printed or Typed Name Barbara S. Pedensen,

Mount

Printed or Typed Name:

Signature: Date of Deposit:

Title of Invention:

Method and Apparatus for Enhancing Filter Bed Performance

Dennis Chilcote Michael S. Gratz Robert Clifford John Mills

Karie Mars Gregory Vineretsky Daniel McGraw

Alan Dunn Bobby Dabbs

#### DESCRIPTION

This application claims priority of provisional application Serial Number 60/401,267, entitled "Method and apparatus for Improving the Withdrawal of Liquid from a Settled Bed of Solid Particles in a Microbial Reactor," filed August 4, 2002, which is incorporated herein by this reference.

#### **BACKGROUND OF THE INVENTION**

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#### Field of the Invention.

This invention relates, generally, to apparatus and methods of operation for a filter bed installed in a microbial remediation reactor or in other chemical, petrochemical, waste, or food process vessels. More specifically, the invention relates to improvement of filter bed performance by moving and/or preventing formation of the sludge mat that tends to settle on top of the filter bed surface, so that the sludge mat does not block flow through the filter bed to an extent that requires premature backwashing of the filter bed.



UNITED STATES DEPARTMENT OF COMMERCE UNITED STATES DEPARTMENT OF COMMUNICATION OF COMMUNICATION OF COMMISSIONER FOR PATENTS P.C. Dox 1450
Alexandra, Vigous 22313-1450
www.mpho.gov

FILING OR 371 APPL NO. ART UNIT FIL FEE REC'D (c) DATE ATTY DOCKET NO DRAWINGS TOT CLMS IND CLMS 10/632,527 08/01/2003 1764 459 3240 11

27727 PEDERSEN & COMPANY, PLLC P.O. BOX 2666 BOISE, ID 83701

**CONFIRMATION NO. 4354 UPDATED FILING RECEIPT** 

OC000000011945585

Date Mailed: 02/23/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if

Applicant

Dennis Chilcote, Minneapolis, MN; Michael S. Gratz, Eden Prairie, MN; Robert Clifford, Hopkins, MN; John Mills, Shoreview, MN: Gregory Vineretsky, Shoreview, MN; Daniel McGraw, Eden Prairie, MN; Alan Dunn, Eden Prairie, MN; Bobby Dabbs, Humboldt, TN; erie Mars, Shoreview, MN;

Domestic Priority data as claimed by applicant

This appln claims benefit of 60/401,267 08/04/2002

Foreign Applications

If Required, Foreign Filing License Granted: 10/30/2003

Projected Publication Date: 06/03/2004

Non-Publication Request: No

Early Publication Request: No

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JUL 2 2 2005

Attorney's File Number: Applicant or Patentoe:

3240

hilcote, Gratz. Clifford, Mills, Mars, Vinerestsky, McGraw, Dunn, and Dabbs

Serial or Patent No.: 10/632,521 Filed or Issued Filed August 1, 2003

Title: METHOD AND APPARATUS FOR ENHANCING FILTER BED PERFORMANCE

## COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION - Joint Inventors

As a below-named inventor, I hereby declare that:

#### Inventorship

My residence, post office address, and citizenship are as stated below next to my name. I believe I am an original, first and joint inventor, together with Karie Mars, of the subject matter which is claimed and for which a patent is sought on the invention entitled METHOD AND APPARATUS FOR ENHANCING FILTER BED PERFORMANCE, the specification of which:

	is attached ne			
<u>X</u> _	was filed on _	August 1, 2003	_as Application Scrial No	10/632,527

I hereby authorize Attorney Ken J. Pedersen, Registration No. 29,689 and/or Patent Agent Barbara S. Pedersen, Registration No. 36,237 to fill in the above blanks and check the correct option as is necessary and appropriate.

#### Review of Patent Application

I hereby state that I have reviewed and understand the contents of the above identified specification and drawings, if any, including the claims, as amended by any amendment referred to above.

#### Duty to Disclose

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, section 1.56.

#### Claim of Priority: Foreign

I hereby claim foreign priority benefits under Title 35. United States Code, section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign applications for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

:	Prior Foreign Application(s)	:	
çountry	day/month/year filed	priority claimed:	
		ves	no
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### Claim of Priority: United States and/or International

I hereby claim the benefit under Title 35, United States Code, section 120 of any United States or International application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior application in the manner provided by the first paragraph of Title 35, United States Code, section 112, I acknowledge the duty to disclose material information as defined by Title 37, Code of Federal Regulations, section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

## Prior United States Application(s)/PCT International Applications:

application serial no. filing date status (patented, pending, abandoned)

August 4, 2002 Provisional Application

#### Power of Attorney

I hereby appoint Attorney Ken J. Pedersen, Registration No. 29,689 and/or Patent Agent Barbara S. Pedersen, Registration No. 36,237, as my agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

All correspondence and all telephone communication should be addressed to:

Ken J. Pedersen
Pedersen & Company, PLLC
P.O. Box 2666
Boise, Idaho, 83701-2666
Telephone: (208) 343-6355
Facsimile: (208) 343-6341

#### Declaration

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Inventor

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Citizenship

Post Office Address

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2853 41st Ave S

Minneapolis, MN 55406

Signature

cunis ( hilos

Dennis Chiicote

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Residence (Town-State-Country)

Citizenship

Post Office Address

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Eden Prairie, MN 55344

Signature

Date 11-2-03

Name of Inventor

Residence Country

Citizenship

Post Office Address

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PATENT ATTORNEY

BARBARA S. PEDERSEN
PATENT AGENT

SHANE A. KENNEDY
PATENT ATTORNEY

INTELLECTUAL PROPERTY LAW PATENTS . TRADEMARKS . COPYRIGHTS

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E-MAIL: IP@PEDERSENCO.COM WEBSITE: WWW.PEDERSENCO.COM

July 18, 2005

STACEY D. COLEMAN-MAULE Office Manager

> LISA K. KENNEDY TECHNICAL ASSOCIATE

Attn: Certificate of Corrections Branch

Commissioner for Patents

PO Box 1450

Alexandria, VA 22313-1450

Re: Utility Patent

Inventor(s): Dennis Chilcote, et al.

Title: Method and Apparatus For Enhancing Filter Bed Performance

US Patent No.:6,890,440 Issued Date: May 10, 2005

Docket No: 3240

Dear Sir:

Please find enclosed for the subject patent:

- 1) Certificate of Correction;
- 2) Request for Issuance of Certificate of Correction;
- 3) Copy of the following documents:
  - a) Initial Information Data Sheet;
  - b) First page of the Non-Provisional Application;
  - c) Official Updated Filing Receipt (non-provisional); and
  - d) Combined Declaration and Power of Attorney; and
- 4) Return postcard.

Respectfully submitted

Ken J. Pedersen/

Registration No. 29,689 Barbara S. Pedersen Registration No. 36,237

**Certification of First Class Mailing** 

I hereby certify that this correspondence and any documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail with sufficient postage on the date below in an envelope addressed to: Attn: Certificate of Corrections Branch, Commissioner for Patents, Pp Box 1450, Alexandria, VA 22313-1450.

Name: Signature: Deposit Date: Barbara S. Pederser

cc: Client

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also Form PTO-1050)

# UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page \_\_\_\_ of \_\_\_

PATENT NO.

6,890,440

APPLICATION NO.:

10/632,527

ISSUE DATE

: May 10, 2005

INVENTOR(S)

: Dennis Chilcote, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Inventor:

Mike S. Gratz should read Michael S. Gratz.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Barbara S. Pedersen Pedersen & Co., PLLC PO Box 2666 Boise, ID 83701

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

JUL 2 8 2005